

2004 ANNUAL ANALYSIS OF CEDAR & TOLT WATER SUPPLIES

Distribution Water Quality (unless otherwise noted)
Samples Collected: May 4, 2004 (unless otherwise noted)

Tolt Distribution = Higher elevations North of the ship canal.

Cedar Distribution = South of the ship canal & lower elevations North of ship canal.

Water Quality Parameter	State Dept. of Health Maximum Contaminant Level	CEDAR	TOLT	Minimum Reporting Level
Primary Standards *	MCL			
Antimony	6 ug/L	ND	ND	1.0
Arsenic	50 ug/L	ND	ND	1.0
Asbestos \$	7 million fibers/L (>10um long)	ND	ND	0.2
Barium	2000 ug/L	10.1	2.3	1.0
Beryllium	4 ug/L	ND	ND	0.2
Bromate #	10 ug/L	ND (5/28/04)	ND (5/11/04)	5.0
Cadmium	5 ug/L	ND	ND	0.2
Chromium	100 ug/L	ND	ND	1.0
Cyanide	200 ug/L	ND	ND	10
Fluoride	4 mg/L	0.98	1.02	0.10
Haloacetic Acids, Total ~	60 ug/L	26.2	30.5	1.0
Mercury	2 ug/L	ND	ND	0.1
Nickel	100 ug/L	ND	ND	1.0
Nitrate-Nitrogen	10 mg/L	0.03	0.15	0.01
Nitrite-Nitrogen	1 mg/L	ND	ND	0.002
Selenium	50 ug/L	ND	ND	1.0
Thallium	2 ug/L	ND	ND	0.2
Trihalomethanes, Total~	80 ug/L	34.5	44.4	0.5
Turbidity #	5 NTU for Cedar/ 0.30 NTU for Tolt	0.47	0.17	0.05
Secondary Standards **	SMCL			
Aluminum	50 - 200 ug/L	29	62	1.0
Chloride	250 mg/L	4.4	2.5	0.5
Color	15 std. units	ND	ND	5.0
Copper	1000 ug/L	1.2	ND	1.0
Fluoride	2 mg/L	0.98	1.02	0.10
Iron	0.3 mg/L	0.049	0.014	0.004
Manganese	50 ug/L	5	ND	1.0
pH, range ++	6.5 - 8.5 pH units	7.78 - 8.67	7.89 - 8.28	NA
Silver	100 ug/L	ND	ND	1.0
Solids, Total Dissolved	500 mg/L	57.5	53.0	5.0
Specific Conductance	700 umhos/cm	73.2	67.3	5.0
Sulfate	250 mg/L	1.3	1.4	1.0
Zinc	5000 ug/L	2	ND	1
Other Parameters	Units			
Alkalinity, Total (as CaCO3)	mg/L	19.7	20.2	2.0
Bromide	ug/L	ND (5/28/04)	---	5
Calcium, (as CaCO3)	mg/L	24.3	28.2	2.0
Hardness, (as CaCO3)	mg/L	29.2	29.9	2.0
Hardness, (as CaCO3)	grains/gal.	1.69	1.73	0.1
Magnesium	mg/L	1.20	0.40	0.02
Oxygen, Dissolved	mg/L	10.4	17.0	0.5
Phosphate, soluble-reactive	ug/L	6	5	1
Potassium	mg/L	0.26	0.14	0.02
Silica, Reactive	mg/L	8.30	5.80	1.0
Sodium	mg/L	2.80	1.11	0.08
Temperature, normal annual range	deg. C.	5 - 20	5 - 20	NA
Total Organic Carbon #	mg/L	1.02	1.08	0.20
Lead, Source water	ug/L	ND	ND	1
Residential Survey @	Action Level	Combined System		
2003 Lead	15 ug/L	8.0		1.0
2004 Lead		10.4		
2003 Copper	1300 ug/L	205		1.0
2004 Copper		264		

Primary and Secondary Standards were measured at the Intake to the distribution system after treatment.

* Health stds.: Supplier subject to public notification.

++ January-June 2004, 10-90th percentile

** Aesthetic stds.: Supplier not subject to public notification.

\$ Test results 12/15/95 - To be analyzed in 2004.

~ Average of the last 4 quarters testing, through 5/04.

As measured at treatment plant.

ND = Not Detected at or above the Minimum Reporting Level

1 ppm = 1 mg/L = 1000 ug/L

@ Measured at 90th percentile of overnight standing residential samples from homes with copper pipes and lead solder.

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<http://www.seattle.gov/util/services/waterquality/>